

IP address in the seventh step.

12. A recording medium in which a computer
readable unauthorized access avoiding program
5 executed in an intelligent interconnecting device
having a function of repeating a packet
transmitted/received between a plurality of
computers and being structured to be controllable
by an external apparatus based on a TCP/IP protocol
10 is recorded,

wherein the unauthorized access avoiding
program comprises:

a first step of causing the intelligent
interconnecting device to judge whether or not a
15 first access to the intelligent interconnecting
device from outside has occurred;

a second step of causing the intelligent
interconnecting device to carry out authentication
processing by using a user identifier and a
20 password based on
the TCP/IP protocol when it is judged in the first
step that the first access from outside has
occurred;

a third step of causing the intelligent
25 interconnecting device to judge after the

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authentication processing in the second step
whether or not authentication is given;

a fourth step of determining an authenticated
external apparatus as an apparatus to be responded
5 to thereafter by the intelligent interconnecting
device and causing the intelligent interconnecting
device to judge whether or not this access is the
first access, when it is judged in the third step
that the authentication is given;

10 a fifth step of causing the intelligent
interconnecting device to extract and store a
source IP address included in a packet which is
received from the external apparatus in the
authentication processing when this access of the
15 external apparatus is judged to be the first access
in the fourth step;

a sixth step of determining the external
apparatus as an apparatus not to be responded to
thereafter by the intelligent interconnecting
20 device when the external apparatus is judged not
to be authenticated in the third step;

a seventh step of causing the intelligent
interconnecting device to judge whether or not the
source IP address of the external apparatus giving
25 the access thereto is identical with the stored

source IP address when this access is judged not to be the first access in the first step;

an eighth step of causing the intelligent interconnecting device to judge whether or not the source IP address is within a predetermined valid period when the source IP address of the external apparatus is judged to be identical with the stored source IP address in the seventh step;

a ninth step of determining the external apparatus having the source IP address which is judged to be within the predetermined valid period as an apparatus to be responded to thereafter by the intelligent interconnecting device and causing the intelligent interconnecting device to execute the steps beginning from the second step, when the source IP address of the external apparatus is judged to be within the predetermined valid period in the eighth step; and

a tenth step of determining the external apparatus whose source IP address is judged to be nonidentical or is judged to be not within the predetermined valid period as an apparatus not to be responded to thereafter by the intelligent interconnecting device, when the source IP address of the external apparatus is judged to be